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preallocation of metadata

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1. A.2. Major File Systems in Linux

Metadata is brought into a consistent state and pending files or data blocks are **Concurrent** operations requiring multiple **concurrent** log entries can be ... Before **writing** the data to the file system, XFS reserves (**preallocates**) the ...

www.novell.com/documentation/suse91/.../apas02.html - Cached - Similar

2. ZFS Performance - Siwiki

May 4, 2007 ... Every update to the ZFS (**write** or **metadata** updates) is assigned a Existing filesystems force tradeoffs between **write concurrency** and POSIX ... but in some case (like databases which use **preallocated** files), ...

www.solarisinternals.com/wiki/index.php/ZFS_Performance

- Cached - Similar

3. Ext4 File System

Metadata is present in the superblock, the group descriptors, and the journal. **Preallocation** must be persistent across reboots, unlike ext3 and ext4 block ... placement and reduces fragmentation with **concurrent write** workloads. ...

www.scribd.com/doc/7114603/Ext4-File-System - Cached - Similar

4. Dynamic file system semantics to enable **metadata** optimizations in PVFS

by M Kuhn - 2009 - Related articles

This includes compound operations and **pre-allocation** of handles and datafiles. ... clients can construct **metadata write-back** caches to speed up **metadata** operations. the file system, while the operation of five **concurrent** clients ...

www3.interscience.wiley.com/journal/122327351/articletext?DOI=10...

5. [PDF] H2237 - Deploying Celerra MPFS: WP

File Format: PDF/Adobe Acrobat

The MPFS agent and Celerra file server use FMP to pass **metadata** to the

client, ... NFS/CIFS clients and MPFSi clients can have **concurrent** read-
write access to reservation and **preallocation** of file space on the file
system with a ...

www.emc.com/collateral/hardware/.../h2237-deploying-celeerrampfsi.pdf

6. [\[PDF\] Best Practices](#)

File Format: PDF/Adobe Acrobat - Quick View

and are not optimized to support multiple hosts performing **concurrent** I/O
operations. 3) Implement a dedicated network for **Metadata** controllers
and SAN clients. ... MetaSAN lets you set **pre-allocation** size for **write**
operations: ...

www.interlab-net.com/docs/lightworks/.../MetaSANBestPractices.pdf

- Similar

7. [\[PDF\] Comprehensively and Efficiently Protecting the Heap](#)

File Format: PDF/Adobe Acrobat - Quick View

by M Kharbutli - 2006 - Cited by 11 - Related articles

Concurrent to our work, Berger and Zorn proposed DieHard [3]. ... the
heap management library to **write** heap **meta-data** information to it,
causing subsequent access allocation is triggered, the application
sends a **pre-allocation** re- ...

www.ece.ncsu.edu/arpers/Papers/heapserver-asplos06.pdf - Similar

8. [\[PDF\] ZBD: Using Transparent Compression at the Block Level to Increase ...](#)

File Format: PDF/Adobe Acrobat - Quick View

by T Makatos - Related articles

To allow for a high degree of **concurrent** I/O operations progressing
asynchronously, ZBD ... to store pending extent **writes** and dirty **metadata**
blocks. E. Power Efficiency ... cations, except for the **pre-allocation** of
workspace buffers. ...

storageconference.org/2010/Papers/SNAPI/7.Makatos.pdf

9. [Proactive space allocation in a database system - Patent application](#)

It also includes cross-domain system calls and cleansing disk-**write**
operations. If such a highly **concurrent** environment reaches full
capacity, ... Also, the extension of a tablespace must be done serially to
protect private **metadata**. ... Otherwise, at step 311, space **pre-allocation**
tasks are created based on ...

www.faqs.org/patents/app/20090030956 - Cached

10. [\[PDF\] NetApp a VMware.pdf - NetApp template. 12/16/03](#)

File Format: PDF/Adobe Acrobat - View as HTML

Concurrent simulations (e.g., crash tests) ... **Writes to pre-allocated** locations (data and **metadata**) ... **Meta Data**. A-SIS Deduplication: Function ...

everest.natur.cuni.cz/konference/2010/.../NetApp%20a%20VMware.pdf

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